

Applicant : Walter Callen et al.  
Serial No. : 10/081,872  
Filed : February 21, 2002  
Page : 3

Attorney's Docket No.: 09010-108001

REMARKS

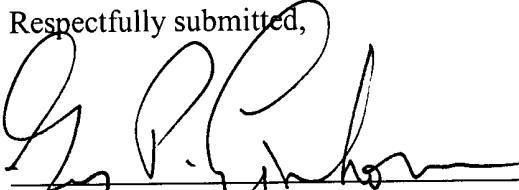
Applicants hereby submit that the enclosures fulfill the requirements under 37 C.F.R. §1.821-1.825. The amendments in the specification merely insert the paper copy of the Sequence Listing and sequence identifiers in the specification. Further, Figures 10 and 14 have been amended to correct sequence identifiers. No new matter has been added.

Attached hereto is a marked-up version of the changes made to the specification by the current amendment.

Please apply any charges or credits to Deposit Account No. 06-1050, referencing attorney docket number 09010-108001.

Date: Sept 25, 2002

Respectfully submitted,

  
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**“Version With Markings to Show Changes Made”**

In the specification:

Paragraph [0048] beginning at page 10, line 6, has been amended as follows:

**Figures 14A-14C** show[s] the sequence alignments of hypothermophilic  $\alpha$ -amylases, as set forth in Example 8. Figures [14a shows] 14A-1 and A-2 show[s] an alignments of amylase sequences. SEQ ID NO.: [81] 82 = an environmental clone; pyro = *Pyrococcus sp.* (SEQ ID NO:313) (strain:KOD1), Tachibana, Y., Mendez, L., Takagi, M. and Imanaka, T., J Ferment Bioeng. 82:224-232, 1996; pyro2 = *Pyrococcus furiosus* (SEQ ID NO:314), Appl. Environ. Microbiol. 63 (9):3569-3576, 1997; Thermo = *Thermococcus sp.* (SEQ ID NO:315); Thermo2 = *Thermococcus hydrothermalis* (SEQ ID NO:316), Leveque, E. et al. Patent: France 98.05655 05-MAY-1998, unpublished; and a consensus sequence (SEQ ID NO:317). Figures [14b] 14B-1 to 14B-3 show[s] the amino acid sequence alignment of identified sequences: SEQ ID NO.: [81] 82; pyro (SEQ ID NO:313); SEQ ID NO.: [75] 74; thermo2 (SEQ ID NO:316); SEQ ID NO.: [77] 76; SEQ ID NO:78; SEQ ID NO.: [83] 84; SEQ ID NO.: [85] 86; [thermo2]; SEQ ID NO.: [79] 80; thermo (SEQ ID NO:315); pyro2 (SEQ ID NO:314); clone A (SEQ ID NO:318); [thermo3] and a consensus sequence (SEQ ID NO:319). Figures [14c] 14C-1 to 14C-6 show[s] the nucleic acid sequence alignment corresponding to the polypeptide sequence of Figures 5 and 6. SEQ ID NO.: 81; SEQ ID NO.: 75; SEQ ID NO.: 77; SEQ ID NO.: 83; SEQ ID NO.: 85; SEQ ID NO.: 79; clone A; and SEQ ID NO.: 73.

Paragraph [0050] beginning at page 10, line 19, has been amended as follows:

**Figures 16A-16M** [is] are the sequences of the invention.